

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-10. (Canceled)

11 – 18. (Canceled)

19. (Canceled)

20. (Original) A process for selective removal of COS from a gas stream containing COS and CO₂, said process comprising contacting the gas stream with a solvent composition comprising

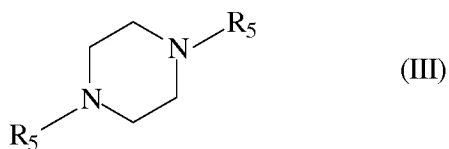
a) 1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone; and

b) at least one alkanolamine compound of the formula



or

at least one piperazine compound of formula



wherein R₃ is hydrogen, an alkyl group having from 1 to 6 carbon atoms, or the R₄OH group; R₄ is a branched or unbranched alkylene group having from 1 to 6 carbon atoms; R₅, independently in each occurrence, is hydrogen or an hydroxyalkyl group having from 1 to 4 carbon atoms; and R₆ is hydrogen, an alkyl group having from 1 to 6 carbon atoms or an hydroxyalkyl group having from 1 to 4 carbon atoms.

21-25. (Canceled)

26. (Previously presented) The process of Claim 20 wherein component b) is an alkanolamine of formula II in which substituent R₃ is hydrogen.
27. (Previously presented) The process of Claim 20 wherein component b) is at least one of monoethanolamine, diethanolamine, methylethanolamine, diisopropanolamine, and 2-(2-aminoethoxy) ethanol.
28. (Previously presented) The process of Claim 27 wherein component b) is monoethanolamine.
29. (Previously presented) The process of Claim 20 wherein component b) is a compound of formula III.
30. (Currently amended) The process of Claim 20 wherein the solvent composition contains less than about ~~9~~ 8.6 weight percent of water.